

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
4 March 2004 (04.03.2004)

PCT

(10) International Publication Number
WO 2004/018322 A1

(51) International Patent Classification?: **B65D 83/04**

(21) International Application Number:
PCT/FI2003/000605

(22) International Filing Date: 15 August 2003 (15.08.2003)

(25) Filing Language: Finnish

(26) Publication Language: English

(30) Priority Data:
20021509 21 August 2002 (21.08.2002) FI

(71) Applicant (for all designated States except US): **ADDOZ OY** [FI/FI]; Viikinkaari 6, FIN-00710 Helsinki (FI).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **VARIS, Reijo** [FI/FI];
Sepeteuksentie 29, FIN-00760 Helsinki (FI).

(74) Agent: **LEITZINGER OY**; Tammasaarenkatu 1, FIN-00180 Helsinki (FI).

(81) Designated States (*national*): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

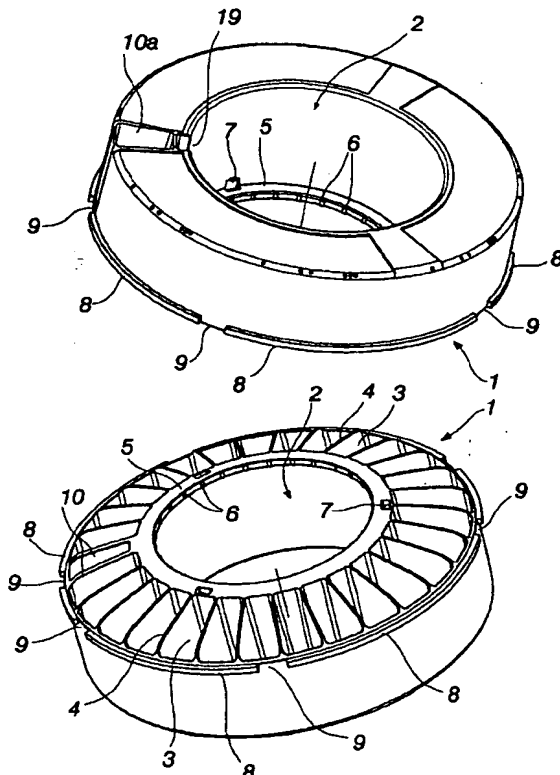
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

[Continued on next page]

(54) Title: DEVICE FOR DISPENSING TABLET- OR CAPSULE-SHAPED MEDICAMENTS IN DESIRED DOSES



(57) Abstract: The device comprises a collar-shaped cassette body (1), including a central opening (2) surrounded by an open-top annular space which is divided by partitions (4) for dosage containers (3). The dosage containers (3) are concealed by a cover (11), rotatable relative to the cassette body (1) and provided adjacent to its circular rim with a dispensing aperture (13), which is coincident with any dosage container (3) by rotating the cover (11). The cover (11) includes a central recess (12) or a collar ring, which is fit to be embedded in the body's central opening (2). The cover (11) is provided with a window (14), through which is visible a dispensing time for at least one dose, which is printed on a dispensing schedule placed in the body's central opening. Cooperation between the body (1) and the cover (11) enables facilitating both dispensing of doses from the dosage containers and loading of medicaments into the dosage containers.

WO 2004/018322 A1

WO 2004/018322 A1



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 03/00605

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: B65D 83/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: B65D, A61J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6193103 B1 (CLARIJS, C.), 27 February 2001 (27.02.01), figures 1-5, abstract --	1-6
A	US 6039208 A (LAMBELET, JR., L.E.), 21 March 2000 (21.03.00), figures 1-17, abstract --	1-6
A	WO 0029306 A1 (NOVO NORDISK A/S), 25 May 2000 (25.05.00), page 3 - page 4, figure 1 --	1-6
A	US 5575392 A (CUTLER, P.A.), 19 November 1996 (19.11.96), figures 1-5, abstract --	1-6



Further documents are listed in the continuation of Box C.



See patent family annex.

*

Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

12 November 2003

Date of mailing of the international search report

19 -11- 2003

Name and mailing address of the ISA/
Swedish Patent Office
Box 5055, S-102 42 STOCKHOLM
Facsimile No. +46 8 666 02 86

Authorized officer

Pär Moritz /OGU
Telephone No. +46 8 782 25 00

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 03/00605

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5477981 A (HEYL, P. ET AL), 26 December 1995 (26.12.95), figures 1-6, abstract --	1-6
A	US 4572376 A (WRENNALL, R.K.), 25 February 1986 (25.02.86), figures 1-10, abstract --	1-6
A	US 4078661 A (THOMAS, M.D.), 14 March 1978 (14.03.78), figures 1-6; abstract -- -----	1-6

INTERNATIONAL SEARCH REPORT
Information on patent family members

06/09/03

International application No.

PCT/FI 03/00605

Patent document cited in search report			Publication date	Patent family member(s)	Publication date
US	6193103	B1	27/02/01	AT 191897 T	15/05/00
				AU 715636 B	10/02/00
				AU 3338197 A	07/01/98
				BR 9709709 A	10/08/99
				CA 2258039 A	18/12/97
				DE 69701736 D,T	23/11/00
				DK 907583 T	21/08/00
				EP 0907583 A,B	14/04/99
				SE 0907583 T3	
				ES 2146102 T	16/07/00
				GR 3033959 T	30/11/00
				HU 221786 B	28/01/03
				HU 0001794 A	28/12/00
				JP 2000511853 T	12/09/00
				KR 2000016650 A	25/03/00
				NO 985834 A	11/02/99
				NZ 333316 A	29/07/99
				PL 330420 A	10/05/99
				PT 907583 T	31/08/00
				TR 9802593 T	00/00/00
				WO 9747534 A	18/12/97

INTERNATIONAL SEARCH REPORT
Information on patent family members

06/09/03

International application No.

PCT/FI 03/00605

Patent document cited in search report.			Publication date	Patent family member(s)	Publication date
US	6039208	A	21/03/00	AU 728571 B	11/01/01
				AU 2035999 A	30/09/99
				EP 0943559 A	22/09/99
				JP 11313873 A	16/11/99
				US 5799821 A	01/09/98
				US 5975347 A	02/11/99
				US 6138866 A	31/10/00
				AT 165785 T	15/05/98
				AU 684178 B	04/12/97
				AU 2714995 A	08/02/96
				BR 9503497 A	30/07/96
				CA 2154938 A	30/01/96
				CN 1058465 B	15/11/00
				CN 1127213 A	24/07/96
				CZ 9501789 A	16/10/96
				CZ 9602325 A	16/10/96
				DE 69502359 D,T	01/10/98
				DK 696544 T	15/03/99
				EP 0696544 A,B	14/02/96
				SE 0696544 T3	
				ES 2117835 T	16/08/98
				FI 953623 A	30/01/96
				HU 73096 A	28/06/96
				HU 9502187 D	00/00/00
				IL 114351 A	15/06/98
				JP 8058858 A	05/03/96
				NO 953007 A	30/01/96
				NZ 272509 A	22/09/97
				NZ 328493 A	19/12/97
				PL 177932 B	31/01/00
				PL 309823 A	05/02/96
				SG 32425 A	13/08/95
				SG 73494 A	20/06/00
				SG 83099 A	18/09/01
				US 5551597 A	03/09/96
				US 5562231 A	08/10/96
				US 5570810 A	05/11/96
				US 5775536 A	07/07/98
				ZA 9506328 A	28/01/97
WO	0029306	A1	25/05/00	AU 1263000 A	05/06/00
				BR 9915294 A	07/08/01
				CA 2350505 A	25/05/00
				CN 1326414 T	12/12/01
				CZ 20011606 A	17/07/02
				EP 1149033 A	31/10/01
				HU 0104047 A	28/03/02
				IL 142542 D	00/00/00
				JP 2002529338 T	10/09/02
				NO 20012329 A	12/07/01
				PL 347436 A	08/04/02
				US 6325241 B	04/12/01
US	5575392	A	19/11/96	CA 2017455 A	26/11/90
				US 5154296 A	13/10/92

INTERNATIONAL SEARCH REPORT

Information on patent family members

06/09/03

International application No.

PCT/FI 03/00605

Patent document cited in search report			Publication date	Patent family member(s)	Publication date
US	5477981	A	26/12/95	NONE	
US	4572376	A	25/02/86	NONE	
US	4078661	A	14/03/78	NONE	